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## **Chapter 1: Technical Specification of GET 338 UO**

### **1.1 Normal work environment**

#### **Operating environment**

- a) Temperature : +5 °C - +35 °C
- b) Relative humidity : ≤ 80%
- c) Supply voltage : AC 220V, 50Hz
- d) Atmospheric pressure : 86 kPa - 106 kPa

#### **Storage and Transfer**

- a) Ambient temperature : -10 °C - +55 °C
- b) Relative humidity : ≤ 95%
- c) Atmospheric pressure : 50 kPa - 106 kPa

### **1.2 Main sterilization method: Highly concentrated ozone gas**

### **1.3 Ozone generator specifications**

Dimension : (L)142 mm x (W)60 mm x (H)35 mm

Power : ± 10W

### **1.4 Ozone concentration: ≥100 ppm**

### **1.5 One ozone sterilization period: 60 minutes**

### **1.6 Standard resistance of ozone generator usage: 1500 hours**

### **1.7 Preferred sterilization method: Ultra-high-intensity UVC light**

### **1.8 UVC germicidal lamp specifications**

Dimension : length 345mm x diameter 20mm

Power : ± 15W

### **1.9 UVC light intensity: ≥ 40μW/cm<sup>2</sup> in 1-meter length**

### **1.10 One UVC sterilization period: 60 minutes**

### **1.11 Standard UVC lamp life: 1500 hours**

### **1.12 Top shelf capacity: 3 kg**

### **1.13 Lower shelf capacity: 3 kg**

- 1.14 Leakage ground current: 0.1 mA
- 1.15 Earth resistance: 0.1Ω
- 1.16 Voltage test resistance 1500V 1 min: no breakdown
- 1.17 Supply voltage: AC 220V
- 1.18 Electrical frequency: 50 Hz
- 1.19 Size: (L)435mm x (W)378mm x (H)450mm
- 1.20 Total unit net weight: 10.3Kg

FULL SPECIFICATIONS GET 338 UO

Product Model / Type		GET 338 UO
Capacity		38L
Rated Voltage		220V
Rated Frequency		50Hz
Top Shelf Capacity		3 Kg
Bottom Shelf Capacity		3 Kg
Unit Dimension		435 x 378 x 450 (mm)
Unit Gross Weight		11.4 Kg
Unit Net Weight		10.3 Kg
Sterilization with Ozone	Ozone Concentration	≥100ppm
	Sterilization Time	60 min
	Sterilization Test Results	Sterile (Killing log>6)
Sterilization with Ultra Violet	UVC Intensity	≥40μW/cm <sup>2</sup>
	Sterilization Time	60 min
	Sterilization Test Results	>90% (Sterile)
Auto Ozone and Ultra Violet	Ozone Concentration	≥100ppm (Ozone) ≥40μW/cm <sup>2</sup> (UV)
	Sterilization Time	120 min
	UVC Intensity	Sterile
	Ozone & UVC Usage Standard Durability	≥ 1500 hours
Leakage current test		≤ 0.1mA
Earth resistance test		≤ 0.1Ω

Voltage resistance test 1500V, 1min	Not transparent
Function Test at 180V	Can Work Normal
Function Test at 250V . voltage	Can Work Normal
Function Test at 42OC temperature, 95% RH	Can Work Normal
Function Test at -10 OC	Can Work Normal
Technical specifications	High Voltage and High Frequency Module
Ozone Generator	Dimension 142x60x35(mm)
	Electrical power ± 10W
Technical specifications	High Intensity and Stable Output Power
UVC lamp	Dimension 345xØ20 (mm)
	Electrical power ± 15W
Protection against ozone leakage	High-density silicone seal
Alarm and stop working when the door is opened	There is
Protection against UVC light leakage	Double layer glass
Alarm and stop working when the door is opened	There is
Protection against ozone & UVC leakage	Door seal + Mechanical door lock

## Chapter 2: Security Warning

- 2.1 Power supply must be grounded first before sterilizer is operated.
- 2.2 Please disconnect the power supply cable before replacing the fuse.
- 2.3 This tool recommended to be operated and stored by trained staff.
- 2.4 The operator must read this manual carefully before operating sterilizer, and operate the appliance in accordance with the operating regulations.
- 2.5 Design of this sterilizer has good security, but the operator must still pay attention to the warnings of the state and operating conditions of the sterilizer.
- 2.6 Please turn off sterilizer and disconnect the power supply cord before cleaning and wiping dry.
- 2.7 If the instrument is not used immediately after sterilization, the instrument should be placed in a tray container lined with sterile paper, and covered with sterile cloth or paper. This instrument should be used in 3 hours' time.
- 2.8 It is recommended to replace the ozone generator module and or UVC lamp after use over 1500 hours, to maintain the effectiveness of sterilization.
- 2.9 The GET 338 UO sterilizer has passed the tests according to the standards of IEC60335 and IEC60601. In order to maintain the best performance during use, it is recommended to perform periodic calibrations to an Elitech service center or calibration agency that has been accredited by KAN; such as BPK (Health Facility Security Center).

## **Chapter 3: Maintenance Rules**

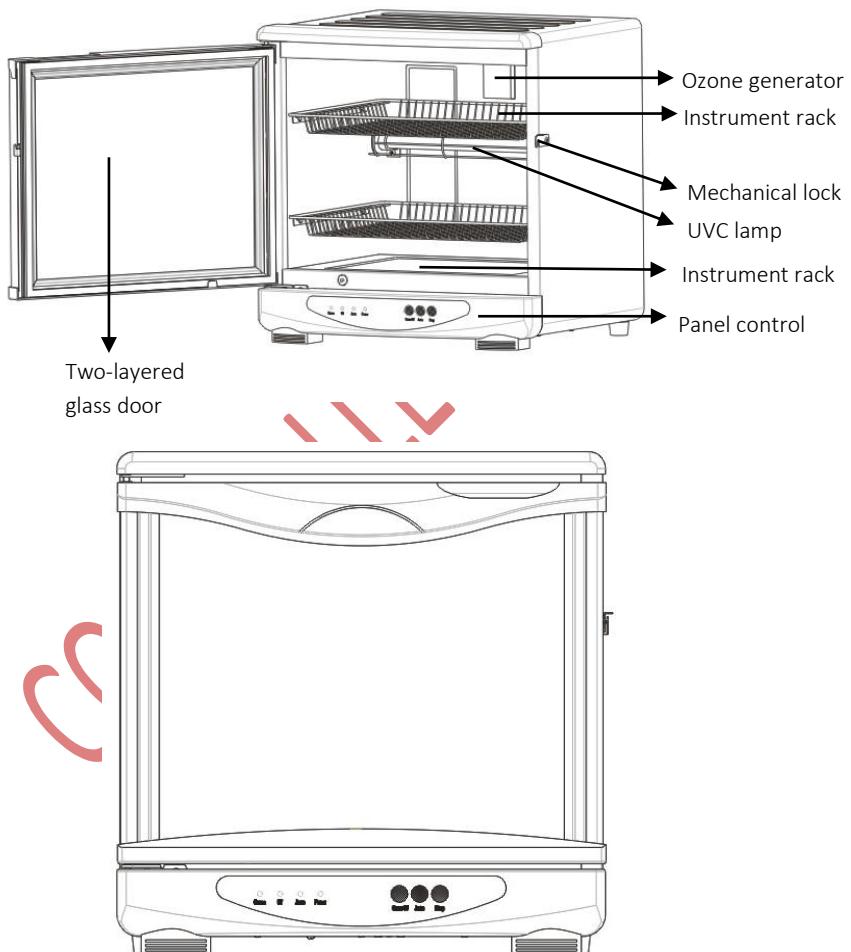
- 3.1 Under normal conditions use according to this Sterilizer Instructions for Use, if this sterilizer has some problems, please contact our customer service. Our company maintains sales records and customer records for each sterilizer that is guaranteed a one year service warranty from the original date of purchase depending on condition and time.
- 3.2 Though during the free maintenance period, we charge for repairs for the following reasons:
  - 3.2.1 Error in usage caused by operation outside the instructions for use of the sterilizer. (Breaking UVC lamp due to hitting the instrument, falling, or other faults; ozone generator not working due to splashing water or other faults)
  - 3.2.2 Error caused by falling when the user has left the location after purchase.
  - 3.2.3 Errors in preparation, reconstruction, decomposition etc. are outside of our company's standards.
  - 3.2.4 Damage caused by natural disasters for example, fire, flood, earthquake and others.
  - 3.2.5 Damage caused by fluctuations in the electric voltage drastically or outside the standard voltage provisions of the sterilizer.
- 3.3 In the warranty period, free replacement for spare parts for one year. Except for power cord, stainless rack, UVC lampshade frame, rack holder for overload, user manual and packing material.
- 3.4 The free maintenance service will be canceled if we find the seal is broken.
- 3.5 For maintenance costs beyond the warranty period, our company recommends continuing to use the "Maintenance Contract Periodically".

## Chapter 4: Characteristics of the GET 338 UO

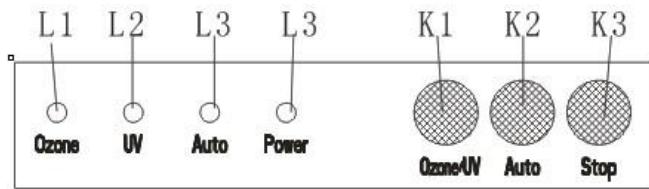
- 4.1 System Sterilization: Dry Sterilizer, does not generate heat, Works at room temperature, Very Energy Saving (max.16Watt), Not high pressure.
- 4.2 This sterilizer is very easy to use, does not require special knowledge and expertise to operate, does not need special supervision & maintenance.
- 4.3 Operation by pressing one button only. The sterilization process runs automatically, and the tool can be shut-off when the sterilization process ends.
- 4.4 Soft control panel, easier for operation. The light Indicator shows the working status more clearly for observation.
- 4.5 Safety class Electricity: Class I.
- 4.6 Overall shape this tool is elegant, light and easy to move or mobilize for various purposes, can be supplied with electricity from the UPS; DC source, solar panels, dry batteries using a power inverter.
- 4.7 According to the working mode class, this tool is included in the tools that cannot work continuously.
- 4.8 Almost all instruments can be sterilized in the Sterilizer, with ozone almost all heat-resistant and non-heat-resistant equipment can be sterilized. For equipment that is not resistant to ozone, it can be sterilized with UVC light in this sterilizer.
- 4.9 This sterilizer can be used multi-functionally for various purposes, institutions, clinics, laboratories, hospitals, restaurants, and households. Can sterilize: all medical instruments, labs, salons, beauty treatments, tattoos, toys, baby equipment, important documents, eating and drinking utensils.
- 4.10 With the ability of ozone as a super oxidizing agent, various heavy metals, toxins, pesticides, and hazardous chemicals can be decomposed in this sterilizer.

## Chapter 5: Construction and Control Panel GET 338 UO

### 5.1 Main construction and main component names



## Control Panel GET 338 UO



### 5.2 Button Description:



Button function: to activate Ozone or UVC sterilization.

**Ozone/UV**



Button function: to activate the automatic sterilization

**Auto**

function. Sterilization starts from ozone for 60 minutes, then proceeds automatically to UVC which functions as an ozone neutralizer



Button function: deactivates all current operations, also functions various cancel buttons to cancel the previous command.

**Stop**

### 5.3 Indicator Description lights on



if the green ozone indicator light is on, it means the ozone sterilization process is in progress



if the yellow UV indicator light is on, it means the UVC sterilization process ongoing



if the blue Auto indicator light is on, it means that the ozone sterilization process followed by UVC is in progress



if the red Power indicator light is on, it means it is connected to a power source

## **Chapter 6: Precautions before Operation**

- 6.1 Read this user manual carefully before operating to ensure that the Sterilizer can be used safely and effectively.
- 6.2 Installation and maintenance the appliance must be carried out according to these instructions for use.
  - 6.2.1 Must be no wires or a high-voltage source in the vicinity of the sterilizer.
  - 6.2.2 Do not use or store the instrument in a place where the air pressure is too high, the temperature and humidity exceeds the general standard, the ventilation is not good, there is too much dust, there are gases containing salt and alkali and chemical drugs.
- 6.3 This sterilizer must be placed on a flat place. Put it in a bright place when it will be moved. Avoid excessive vibration and shock.
- 6.4 The AC frequency and rated voltage shall be as required, and have sufficient current capacity.
- 6.5 Please place this sterilizer in a place that is easy to ground.
- 6.6 Before using the sterilizer, remove all instrument rack straps along with their packaging and remove the User's Manual, Warranty Card and all existing documents, and store them in an easy-to-find place.
- 6.7 Check all equipment in the sterilization room, is it installed properly and correctly and in the right place?
- 6.8 Make sure the mechanical door lock is still functioning properly.
- 6.9 When sterilizing with ozone, alternating purple light on and off is normal, not interference or component damage.
- 6.10 When sterilizing with UVC light, avoid direct contact with eyes even though it has been designed with coated glass for direct contact protection.

## Chapter 7: Work Preparation before Operating the Sterilizer

- 7.1 Check if the sterilizer has been grounded and the cable connection is secure or not.
- 7.2 Check the output voltage appropriate when selecting a UPS AC.
- 7.3 Make sure all the instrument or equipment to be sterilized has been washed clean and dry well before placing in the sterilizer.
- 7.4 Pre-cleaning of instruments using gloves. Instrument cleaned with a warm soapy water solution in the sink or another good container. After that the instrument is rinsed with running water and do it carefully so that the water does not splash.
- 7.5 Insert instruments or equipment into the upper and/or lower shelves according to the risk category or characteristics of the product being sterilized, there must be sufficient gaps between the instruments or equipment so that the sterilization results are effective and thorough.
- 7.6 Instruments can be grouped according to the size of the risk posed to patients:  
**Instruments classified as high risk are:** Instruments that penetrate the skin, enter sterile body parts, or direct contact with injured mucous membranes.  
**Instruments classified as moderate risk are:** Instruments in direct contact with intact mucous membranes.  
**Instruments that are classified as low risk are:** Instruments used only on intact skin
- 7.7 Cotton, gauze, gloves, cloth and the like can be sterilized by placing them neatly and regularly. the fabric is not folded in layers.
- 7.8 For small instruments please provide a tight instrument rack and porous evenly and thoroughly

## **Chapter 8: Precautions during Use**

- 8.1 Note that all instruments or equipment have been arranged neatly and well, according to product categories and characteristics, there is a sufficient gap between instrument or equipment, does not exceed the load and does not overflow.
- 8.2 Note that the mechanical door lock is properly installed to Avoid ozone and UVC leakage.
- 8.3 During sterilization, if excessive ozone leakage is detected, immediately stop the sterilization process, unplug the power supply and contact our service center.
- 8.4 During sterilization, if the UVC lamp flashes for a long time or work abnormally, immediately stop the sterilization process, unplug the power supply and contact our service center.
- 8.5 During the sterilization process, it is forbidden to open the sterilizer door to avoid ozone and UVC leakage, if the door is open the alarm will be sound and the sterilization process will stop automatically. Please to start the sterilization process from the beginning.
- 8.6 When the ozone sterilization process ends, it is forbidden to open the sterilizer door directly, because it can cause a large amount of ozone leakage big. It is recommended to wait for 20 minutes.
- 8.7 Instruments or equipment made of natural rubber, copper and its derivatives, along with easily oxidized materials are not allowed sterilized with ozone, it is recommended to use sterilization with light UVC to avoid wear or damage due to oxidized ozone.
- 8.8 Sterilization with ozone has the possibility of a bleaching effect.
- 8.9 Disconnect or disconnect the power cord from the power source after use.
- 8.10 Store the sterilizer and spare parts properly and correctly according to the instructions use for future use.

## **Chapter 9: Grounding and Electrical Connection to Sterilizer**

### **Grounding:**

- 9.1 Connect the sterilizer to ground and a power outlet via the cable three-way power(three-wire plug). The three-wire plug must be inserted in the three-wire cord plug properly.
- 9.2 If a three-wire receptacle is not available, an electrician who eligible must instal one unit in accordance with the rules of the CONSUIL or AKLI in Indonesia.
- 9.3 Under no circumstances should you remove the grounding conductor from the mains plug.
- 9.4 Do not use extension cords or adapters of any kind. power cord and The plug must be intact and undamaged.
- 9.5 Do not use pipelines and others as grounding.
- 9.6 Proper grounding can ensure safety and protect against AC power interference and electromagnetic waves.

### **Electrical Connection to the Sterilizer:**

- 9.7 Ensure that the ac power supply complies with the following specifications: 220- 240Vac, 50Hz.
- 9.8 Connect the power cord/plug from the sterilizer to the contact stock that has been Grounded / earthed properly.
- 9.9 Make sure the Power indicator light on the sterilizer is on.
- 9.10 If the power cord is not properly connected before operating sterilizer, there is a possibility that the sterilizer is not working properly due to inefficient power input.

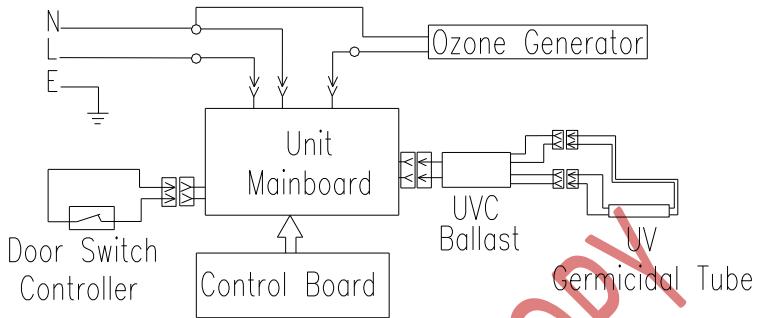
## Chapter 10: Sterilization operation

- 10.1 Select the sterilization method by pressing the ozone/UV button. first press for ozone sterilization, press again for UV sterilization.
- 10.2 When pressing the first time for ozone sterilization, the ozone indicator light will light up, the sterilization process will last for 60 minutes, concentration ozone starts early until it reaches 100 ppm, after the sterilization process is complete the machine will stop and auto shut off.
- 10.3 When pressing the second time for UV light sterilization, the UV indicator light will light up, the sterilization process will last for 60 minutes, the intensity UVC rays will reach stability at a minimum of 40 $\mu$ W/cm<sup>2</sup>, after processing sterilization is complete the machine will stop and auto shut off.
- 10.4 When selecting the Auto button, the sterilization process will start from ozone for 60 minutes marked with the Auto indicator light on, after the ozone sterilization process is complete it will automatically continue to the UV sterilization process (or ozone neutralization process) for 60 minutes marked with the Auto indicator light. light up. After completing this process the machine will stop and auto shut off.
- 10.5 Press the Stop button to stop or cancel the sterilization process at any time if desired.
- 10.6 Use immediately sterilized instruments or equipment to avoid recontamination when they are removed from the sterilizer.
- 10.7 If instruments or equipment that have been sterilized are not used immediately, they can be stored in the sterilizer to maintain the sterility of the instrument or equipment while in the sterilizer.
- 10.8 Instruments or equipment that have been stored in the sterilizer for a long time are recommended to be re-sterilized when they are about to be used again.

## Chapter 11: Troubleshooting for User Glitches

No.	Problem	Solution
1.	Totally dead	<ul style="list-style-type: none"><li>• Check the electrical connection to the power source</li><li>• Check the connection of the brown power cable socket with the avometer</li><li>• Check the connection of the blue power cable socket with the avometer</li><li>• Check the fuse cable connection with the Avometer</li></ul>
2.	Ozone not working	<ul style="list-style-type: none"><li>• Check if the power light indicator is on or not?</li><li>• Check the door control switch with the plate on the door whether it presses well</li><li>• Check normal power supply or not?</li></ul>
3.	UV light is off	<ul style="list-style-type: none"><li>• Check if the power light indicator is on or not?</li><li>• Check the door control switch with the plate on the door whether it presses well</li><li>• Check normal power supply or not?</li></ul>

GET 338 UO STERILISATOR ELECTRIC LINE DIAGRAM



## **Chapter 12: Care and Maintenance**

- 12.1 Buyer is not allowed to open or unpack the contents in the sterilizer. Any maintenance or renewal must be carried out by a trained and professional authorized person from PT. Sinko Prima Alloy. Maintenance must be done with original components from PT. Sinko Prima Alloy.
- 12.2 Please pull out the power supply plug when power electricity will be turned off. If this sterilizer is not used for a long period of time, please unplug the power supply from the power source, then put this sterilizer in a shady, cool and dry place.
- 12.3 Sterilizers should be maintained and cleaned regularly.

### **How to clean the Elitech Sterilizer**

- a. First of all the power cord must be disconnected from the power source.
- b. Prepare a bucket and mix clean water and cleaning agents (soap) liquid or neutral detergent) in the right ratio
- c. Dip a sponge into the bucket and rub it on the outer surface and the interior of the Sterilizer room and its instrument rack
- d. Dip the cloth in a bucket of clean water without cleaning agents then rub evenly throughout the sterilizer to remove foam and soap residue
- e. Use a dry and clean cloth to dry completely The sterilizer is completely dry and clean

## **Additional Chapter**

In practice, there is no special officer responsible for the decontamination action, all group members play a role in the sterilization and disinfection process. In the public health department, the implementing officers usually consist of: Health supervisors, public health nurses, assistant nurses, midwives and public health doctors. In the surgical department, the group members may consist of general practitioners, room nurses, room heads, secretaries and receptionists. Routine tasks such as operating the Elitech Sterilizer can be left to someone else. In view of the above, it is necessary to provide the book "Instructions for Use of Sterilizers" and if needed we can provide the book "Practical Instructions for Sterilizing Instruments with Elitech Sterilizers and Control of Cross Infections".

First of all, it must be understood the meaning and difference of the terms decontamination, disinfection and sterilization. The degree of decontamination desired is determined by the risk posed by the instrument.

**Decontamination:** A general term that describes the method of washing, disinfection and sterilization to remove germs attached to medical equipment.

**Disinfection:** A way to kill vegetative bacteria, viruses and fungi but not to kill spores.

**Sterilization:** A way to kill or destroy all microorganisms and spores attached to medical equipment.

Often there is a misinterpretation of the term above, such as sterilizing with boiling hot water where this method does not kill all spores, viruses and bacteria.

Pre-cleaning is an important part of the decontamination process; if the instrument is not cleaned and rinsed first, blood and other debris will clot and adhere firmly to the instrument. The attached organisms will prolong the decontamination or sterilization process

Elitech Sterilizing Cupboard/sterilisator brings new innovations in the medical

world, in terms of Sterilizing medical equipment. With simple technology we made a breakthrough in the field of sterilization of medical equipment. By applying very high concentrations of ozone gas for sterilization and very high intensity UVC rays.

Elitech Sterilisator fills the need for a sterilizer that is practical, economical, small and safe.

#### **Benefit :**

##### **Practical:**

- No special knowledge required
- No need for supervision
- No need for special care
- Simple sterilization
- Almost all equipment can be sterilized with this tool
- Cloth, gauze, cotton can also be sterilized with this tool.
- With a special wrapping, the instrument is kept sterile for one month
- Increase mobility for doctors and midwives

##### **Economical:**

- Low price
- Practical maintenance
- The addition of tools other than wrapping is not required
- Smallest electricity consumption
- The smallest electricity consumption means the lowest operating costs.

##### **Small :**

- Dimensions GET 338 UO = 435 width x 375 in x 450 height(mm)

##### **Security :**

- Work without pressure
- No explosion hazard
- Electrical installation according to international standards
- Ozone and UVC leakage limits according to international standards

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GET 338 UO

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